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To: Hanchett, James (DPH)
Subject: Today in Separation Science - Latest Issue now Available



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e-Learning Update

Separation Science

IN THIS ISSUE

- GPC/SEC Troubleshooting #5 Low Injection Reproducibility – Varying Peak Area
- Multi-Residue Pesticides Analysis in Herbal Products using Accelerated Solvent Extraction with a Triple Quadrupole GC-MS-MS System
- How Silica Hydride HPLC Columns Can Benefit the Modern Pharmaceutical Laboratory
- Featured Applications
- Upcoming Webinars



GPC/SEC Troubleshooting

#5 Low Injection Reproducibility – Varying Peak Area

Q: I have injected several times from the same vial and the area underneath the sample peak is not constant. What can be wrong?

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Multi-Residue Pesticides Analysis in Herbal Products using Accelerated Solvent Extraction with a Triple Quadrupole GC-MS-MS System

The residue analysis of pesticides has developed in recent years into a comprehensive methodology for the detection of many hundreds of potential contaminating compounds. A multi-residue method for herbal products and teas is faced with additional challenges from the worldwide origin of the products and the complex matrix of the dried materials. In the due quality control of raw materials, the unknown or undeclared local plant protection treatments must be taken into account with a wide variety of potential pesticide contaminations.

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How Silica Hydride HPLC Columns Can Benefit the Modern Pharmaceutical Laboratory

A variety of analytes relevant to pharmaceutical analyses were selected in order to demonstrate the chromatographic capabilities of HPLC columns based on silica hydride. In reversed phase, the advantages of C8 and C18 columns based on this material were shown through excellent repeatability, fast equilibration and superior stability of the bonded moieties. A separation of carisoprodol and its active metabolite meprobamate was used to illustrate the column performance. In the aqueous normal-phase mode, ethambutol retention was obtained using three different stationary phases. Finally, the separation of gabapention and its lactam degradant is used to illustrate the retention of both hydrophilic and hydrophobic analytes using the same column.

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FEATURED APPLICATIONS

Method 8260C by Purge and Trap Gas Chromatography Mass Spectrometry using the Clarus SQ 8

Company: PerkinElmer

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Analysis of Trace Oxygenates in Petroleum-Contaminated Wastewater, Using Purge-and-Trap GC-MS (U.S. EPA Methods 5030B & 8260)

Company: Restek

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Analytical Thermal Desorption: History, Technical Aspects and Application Range

Company: Markes International

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Molecular Weight Determination of LMWH SEC/MALS vs. SEC/UV-RI

Company: Wyatt Technology

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Determination of pesticides by UHPLC-MS

Company: Knauer

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Comprehensive Determination of Trans Fats in Cookies using SP-2560 and SLB-IL111 GC Columns after Silver-Ion SPE Fractionation

Company: Sigma Aldrich / Supelco

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Rapid Separation of 25-OH-vitamin D3 and 3-epi-25-OH-vitamin D3 in Human Serum

Company: Phenomenex

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UPCOMING WEBINARS

Using Variations in Solid Core Particle Diameter and Pore Size to Improve UHPLC and HPLC Separations

Presenter: Stephen Luke

Date: 12 September, 2012

Time: 8:00am PST /

11:00am EST / 4:00pm UK

/ 5:00pm CET

[Click here>>](#)

Pesticide Screener: A Comprehensive Approach to Multi-Target Pesticide Screening Using LC- Time-of-Flight Mass Spectrometry

Presenter: George McLeod

Date: 19 September, 2012

Time: 8:00am PST /

11:00am EST / 4:00pm UK

/ 5:00pm CET

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